



NATIONAL
GEOGRAPHIC

BONUS!



**RUGBY WORLD
CUP POSTER**

KIDS

SEA OTTERS
CUTE
BUT
TOUGH

DARE TO EXPLORE

www.ngkids.co.za

FREE!



**AWESOME
ANIMAL QUIZ
CARDS**

Arctic Alert!

SAVE THE PLANET

- Coastal Cleanup
- Cool Recycling Family Project
- Tiger Rescue

NATIONAL
GEOGRAPHIC



09085

9 771811 723006

Issue 85 September 2011 R25,95 (VAT incl.)

MONSTRO CITY NEEDS YOU!



**BECOME A SUPERMOSHI NOW AT
WWW.SUPERMOSHI.COM**

HI, KIDS



LETTER OF THE MONTH

DEAR FIONA,

MY NAME IS KOLBE AND SOON I WILL BE EIGHT YEARS OLD. MY DAD WORKS ON A GAME FARM IN BRITS. WE HAVE JUST HAD SOME BABY OSTRICHES AND THEY ARE IN A CAMP TO MAKE SURE THE OTHER ANIMALS DO NOT KILL THEM. I LOVE LIVING ON THE FARM AND I LOVE ALL THE ANIMALS AROUND US.

KOLBE GULLEMANN, 7, BRITS

Did you Know?

In 2010 bottle caps were the item collected most on beaches on coastal cleanup day. Turn to page 45 to see how this litter bug can be turned into a cool curtain.



The good news is that nearly one third of plastic produced in South Africa is being recycled, the bad news is the rest is ending up in landfills or scattered about all over the place like confetti at a wedding.

NG KIDS took part in the coastal cleanup last year and it was pretty shocking to see what ends up on the beaches. We'll be going again this year and hopefully there will be less to pick up! If you are in Cape Town on Saturday 17 September and want to join us, send me an e-mail and I'll give you the details closer to the time.

When it comes to saving our environment and animals the more voices we have shouting about it the better. Artists, through their work, can reach people who might not know as much about environmental issues as other people. On the Inside Scoop page this month we feature a Dutch artist who is making a sculpture called Plastic Reef from plastic fished out of the sea. He feels that artists have a different perspective on the problem. "Something familiar and beautiful like a coral reef made out of something so disgusting and ugly (melted plastic debris) is more likely to stay in someone's mind and also the issue that created it in the first place," says Maarten.

Art can change the world and so can photography. We at NG KIDS want more kids to take up photography. It's a great hobby which can lead to a very fulfilling career. Turn to page 22 to find out how to become the next NG KIDS Young Photographer of the Year.

Dare to Explore!

WRITE TO US!

- Send us your letters, birthdays, pictures and comments. We want to hear from you, so start writing!
- Write to us at: The Editor, NG KIDS, P.O. Box 2271, Cape Town 8000.
 - Send us an e-mail to fiona@ngkids.co.za or SMS* us a letter to "NGK Letters" 33970.
 - Now you can also MMS* us your pics to 082-0080-337.
- *Standard rates apply for MMSs, so ask your parents first! SMSs cost R1,50. Free SMSs do not apply. See www.ngkids.co.za for terms and conditions.

SUBSCRIBERS OF THE MONTH

This month's **lucky subscribers** are, Christopher Southey (10), Jana Fouche (12), Kate Duff (9), Matthew Smith (11) and Tiaan Blomerus (11).

They have each won a **box of Gelli Baff** children's bath and pool jelly plus a **G-Spa Therapeutic Gel Bath** for mom too! Gelli Baff gives children a

fun bath time while cleansing and softening the skin. This two pack **powder turns any children's bath or pool water into jelly** like goo and back again. Visit www.gellibaff.co.za for more information.

Go to **page 44** to subscribe. You might be next month's **lucky winner!**



EDITORIAL

Editor Fiona Thomson
fiona@ngkids.co.za
Deputy Editor Delené van der Lugt
Assistant Editor Jani Coetzee
jani@ngkids.co.za
Art Director Emil Papp
Copy Editor Pieter van der Lugt

PUBLISHING

General Manager Charlene Beukes
Associate Publisher Dene Strain

SALES

Business Manager (Johannesburg)
Anthony Evlambiou
011-322-0711
Business Manager (Cape Town)
Hugo van der Westhuizen
021-446-1183
Sales Manager (KwaZulu-Natal)
Eugene Marais
031-533-7655
Group Sales Director
Eureka Zandberg
National Direct Sales Manager
Danie Nell
Direct Sales Executive
Karen Mahlangu

Johannesburg Central Sales Team
(Agencies) Tel: 011-322-0711

Cape Town Central Sales Team
(Agencies) Tel: 021-446-1178

Durban Central Sales Team
(Agencies) Tel: 031-533-7600

MARKETING and PR

Marketing Manager Kelly Cloete
PR and Events Manager
Lisel Daniels
Tel: 021-446-5039
PR Intern Ameerah Kenny

CIRCULATION AND SUBSCRIPTIONS

All subscription payments to:
NATIONAL GEOGRAPHIC KIDS,
PO Box 1802, Cape Town 8000 or
NATIONAL GEOGRAPHIC KIDS,
Free Post, CB0006,
Cape Town 8000 SA
Tel: 0860 103578 Fax: 021-405-1033
E-mail: ngkids_subs@media24.com

DIGITAL


Digital Assistant
Shounees Moola
Website: www.ngkids.co.za

NATIONAL GEOGRAPHIC KIDS

CAPE TOWN:
Media City, 8th floor,
1 Heerengracht, Cape Town 8001
Tel: 021-446-5052; Fax: 021-446-1533
Postal address: PO Box 2271,
Cape Town 8000

DIRECTORS

John Relihan, Raj Lalbahadur

REPRODUCTION Media24
PRINTING Paarl Media Cape
DISTRIBUTION: 

Media24 Lifestyle
Lifestyle
Leefstyl!

NATIONAL GEOGRAPHIC KIDS is published and distributed twelve times a year by Media24, with permission of the National Geographic Society, Washington, DC 20036.

Published by the National Geographic Society.
Chairman of the Board and CEO John M. Fahey, Jr.
President Timothy T. Kelley

Executive Vice-President Terrence B. Adamson
President, Publishing Declan Moore
International Publishing Yulia Boyle, *Vice President*; Diana Z. Jaksic, *Director*; Jennifer C. Jones, *Specialist*

NATIONAL GEOGRAPHIC KIDS

Executive Vice President and Worldwide Publisher Claudia Malley;
Chief Creative Officer, Books, Kids and Family Melina Gerosa Bellows;
Vice President Julie Vosburgh Agnone; **Design Director, Books and Children's Publishing** Jonathan Halling; **Executive Editor** Rachel Buchholz; **Science Editor** Catherine D. Hughes; **Editorial** Andrea Silen, *Associate Editor*; Sharon Thompson, *Copy Editor*; Margaret J. Krauss, *Assistant Editor* Photos Jay Sumner, *Photo Director, Children's Publishing*; Kelley Miller, *Senior Editor* Art Nicole M. Lazarus, *Associate Art Director*; Julide Obuz Dengel, *Designer*; Stewart Bean, *Art Production Assistant* **Copy Editor** Sharon Thompson; **Assistant Editor** Margaret J. Krauss

NATIONAL GEOGRAPHIC EXPLORER AND EXTREME EXPLORER

Vice President and Publisher Francis Downey
Art Director and Designer Karen Thompson **Editors** Brenna Maloney, Sara Chauhan, Macon Morehouse **Designer** James Wildman
Photo Editor Shannon Hibberd, Mary Ann Price

Copyright Media24. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or be transmitted in any form or by any means, electronic or mechanical, without prior consent of Media24.



NATIONAL GEOGRAPHIC

Inside

Arctic Alert!

What happens when the ice begins to melt.

page 14



Tiger Rescue

A tiger cub gets a second chance.

page 20

Young Photographers Competition

Get your cameras ready! You can win awesome prizes!

page 22



Sea Otters

Sea otters are cute ... but very tough!

page 30

Breakfast Around the World

See how different cultures enjoy breakfast.

page 34



DEPARTMENTS

6 Inside Scoop

7 Extreme Weirdness

10 Amazing Animals

38 Cool Inventions

39 Fun Stuff

40 What in the World?

44 Subscription Page

47 Just Joking

48 Art Zone

On the Cover

COVER PHOTOGRAPH: ©MATHIEU BELANGER / REUTERS / CORBIS
COVER INSETS: MILO BURCHAM / PHOTOLIBRARY (GROUP OF OTTERS), ISTOCKPHOTO (BALL, EARTH),
ARIEL MATIAS / NATIONAL GEOGRAPHIC MY SHOT (TOUCAN)

PAGE 3: SEBASTIAN VOIGT (EDITOR)

PAGE 4: JOEL SARTORE (POLAR BEAR); © JF AW (TIGER); MILO BURCHAM / PHOTOLIBRARY (GROUP OF OTTERS);
ANDREW COOK (BREAKFAST)

BUILD-A-BEAR WORKSHOP®

COLOURS OF BEARITAGE

Arrives in store
15 September

stores in
JHB, CPT & DBN
visit
buildabear.co.za
to find a store
near you. Join us
on facebook

Visit a store
& experience
the joy of
making your
own furry
friend



Get your
Braai Pack
filled with
S.A goodies
for only
R149

We're
celebearating
National Braai
Day in style

Bring your
new best friend
to life & then
dress them in
these pawsome
colours of
Bearitage

To win one of these
bears simply answer
this question: Which country's
flag is in the background?
Sms PROUD + your
ANSWER to 36968

Sms' charged at R1.50/sms. Free sms' do not apply. Errors billed. Entrant must have billpayer's mission. We may contact you with future offers via sms till you opt-out. Closing date is 30/09/11. You may enter as many times as you wish. The first correct entry (entries) drawn will win the prize. Prizes not redeemable for cash. Judge's decision is final and no correspondence will be entered into. winners must be able to collect their prize from a Build-A-Bear Workshop store. 5 winners will be selected and contacted telephonically.

{inside} SCOOP

BY FIONA THOMSON

Dumping plastic

"We're as far from land as we could possibly be in all directions and what do you expect to see? How about a plastic water bottle," wrote Dr Marcus Eriksen, while leading a plastic tracking expedition on his boat the *Sea Dragon*.

Plastic is very useful to us: it's light, doesn't break easily and is cheap to produce. But it's very bad for the environment. Up to a quarter of all plastic ends up in the ocean and it doesn't disappear because it doesn't biodegrade. In the ocean it is broken up into tiny pieces, making a deadly soup for our marine animals, as fish and birds mistake the bits for food. Researchers have found that a lot of ocean plastic is caught in ocean gyres. These are huge, swirling stretches of circulating currents. Charles Moore, who first discovered the ocean dumping ground, estimates that there is three million tons in the North Pacific Gyre alone.

Maarten van den Eynde is an artist who co-founded the plastic tracking project. On a journey covering 3 000 kilometres they fished out 396 kilograms of plastic bits and bobs – from lighters to safety helmets and lots of plastic bottles. He displayed the ocean plastic outside his studio, then melted it down to make a plastic reef which is on show in an art gallery. There's no excuse now – we know about the dumping ground and must do what we can to stop it. Reduce, recycle and refuse!



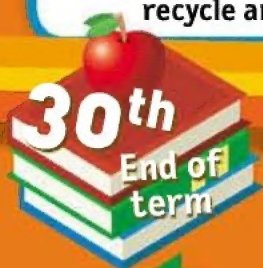
Plastic scooped out of the sea during one expedition laid out outside Maarten's studio.



Plastic Reef is a growing sculpture made of plastic debris coming from the world's oceans.



Artists help the tiger. In July this year, Li Quan teamed up with a famous fashion school in London for a T-shirt design competition. Here is one of the winning designs.



FOR YOUR DIARY



Fast Facts about the Rugby World Cup

1. The 2011 tournament takes place in New Zealand and starts on 9 September.
2. The South African team, the Springboks, are the current world champions. They are only the second team in the world to win the World Cup twice.
3. The winning team receives the Webb Ellis Cup named after William Webb Ellis who "invented" the game.
4. There have been six Rugby World Cup tournaments and all but one of these have been won by a team from the southern hemisphere.
5. The first tournament in 1987 was hosted by both New Zealand and Australia.



SAVE THE TIGERS

Sometimes younger kids (not you, our dear NG KIDS reader!) think that tigers live in Africa along with lions and leopards. But tigers as we know them have never lived in the wild in Africa. That is until now. In 2000 a charity called Save China's Tigers was founded by Li Quan in a desperate attempt to save the critically endangered South China tiger. Cubs were taken from zoos in China and sent to Laohu Valley in South Africa for rewilding. Some people thought it couldn't be done but a decade of hard work has shown that tigers can learn to be wild again. Some are now waiting to return with their African survival skills to their real home in China.

Green Month

- 13 to 18: Clean Up SA Week
- 17: Recycling Day
- 17: International Coastal Clean-up Day
- 22: Car free Day
- 28: Green Consumer Day

EXTREME WEIRDNESS

from
AROUND
the WORLD



weird-o-meter

COW SAYS AAAHHH

WHAT Massages for cows

WHERE Throughout Sweden

DETAILS It's stressful being a cow: someone is always mooing in your face and there's all that standing around. But in Sweden dairy cows chill out by snuggling up against one of these devices. That starts the rotating brush, giving the bovines a soothing rubdown *and* a dry bath as it flicks dirt from their hides.

DO THOSE MASSAGERS COME IN HUMAN SIZES?



OOPS! LOOKS LIKE HE FORGOT HIS PADDLE.

weird-o-meter

KAYAK MEETS BIRDS

WHAT Skyaking

WHERE Somewhere over Mexico

DETAILS What do you get when you cross a kayak with a skydiver? This guy! Miles Daisher is a "skyaker" who jumps out of aeroplanes strapped into a kayak. Using the kayak sort of like a skateboard, Miles spins and twists in the air until he opens his parachute and lands on a tiny strip of water. At least he *hopes* he lands on a strip of water.

weird-o-meter

BIKE DOESN'T SINK

WHAT Floating bicycle

WHERE Wuhan, China

DETAILS You think you're protecting Earth by drinking water from gigantic bottles. But what can you do with all that plastic? Make a floating bike! That's what one inventor did by attaching eight empties to a regular bicycle. Mini-paddles on the spokes help the bike power through the water.



MAYBE SHE TOOK A WRONG TURN AT THE FISHING PIER.

weird-o-meter

OCEAN GETS ART SHOW

WHAT Underwater artist

WHERE Black Sea, off Ukraine

DETAILS The last thing you want to do is dunk fine art in water, unless you're underwater artist Alexander Belozor. His speciality is painting underwater landscapes on location. Using a treated canvas and ultrathick paint that doesn't react to seawater, Alexander gives new meaning to the term "watercolour."



THIS WOULD LOOK SO GREAT IN A FISH TANK.

POKÉMONTM
TRADING CARD GAME

Over
70 New
Pokémon!

BLACK & WHITE

More
Than 110
Cards!



The Pokémon Company
INTERNATIONAL

pokemon.com



Start collecting now!

Emerge victorious with the ultimate collection!

✓ Use the check boxes below to keep track of your Pokémon TCG cards!

<input type="checkbox"/> 1 Snivy ●	<input type="checkbox"/> 30 Dewott ◆	<input type="checkbox"/> 59 Timburr ●	<input type="checkbox"/> 88 Minccino ●
<input type="checkbox"/> 2 Snivy ●	<input type="checkbox"/> 31 Samurott ★H	<input type="checkbox"/> 60 Gurdurr ◆	<input type="checkbox"/> 89 Cincino ★
<input type="checkbox"/> 3 Servine ◆	<input type="checkbox"/> 32 Samurott ★H	<input type="checkbox"/> 61 Throh ★	<input type="checkbox"/> 90 Bouffalant ◆
<input type="checkbox"/> 4 Servine ◆	<input type="checkbox"/> 33 Panpour ●	<input type="checkbox"/> 62 Sawk ★	<input type="checkbox"/> 91 Bouffalant ★
<input type="checkbox"/> 5 Serperior ★H	<input type="checkbox"/> 34 Simipour ◆	<input type="checkbox"/> 63 Sandile ●	<input type="checkbox"/> 92 Energy Retrieval ◆
<input type="checkbox"/> 6 Serperior ★H	<input type="checkbox"/> 35 Basculin ◆	<input type="checkbox"/> 64 Krokorok ◆	<input type="checkbox"/> 93 Energy Search ●
<input type="checkbox"/> 7 Pansage ●	<input type="checkbox"/> 36 Ducklett ●	<input type="checkbox"/> 65 Krookodile ★H	<input type="checkbox"/> 94 Energy Switch ◆
<input type="checkbox"/> 8 Simisage ◆	<input type="checkbox"/> 37 Swanna ★	<input type="checkbox"/> 66 Purrloin ●	<input type="checkbox"/> 95 Full Heal ◆
<input type="checkbox"/> 9 Petilil ●	<input type="checkbox"/> 38 Alomomola ◆	<input type="checkbox"/> 67 Liepard ★	<input type="checkbox"/> 96 PlusPower ◆
<input type="checkbox"/> 10 Lilligant ★	<input type="checkbox"/> 39 Alomomola ★	<input type="checkbox"/> 68 Scraggy ●	<input type="checkbox"/> 97 Poké Ball ◆
<input type="checkbox"/> 11 Maractus ◆	<input type="checkbox"/> 40 Blitzle ●	<input type="checkbox"/> 69 Scrafty ★	<input type="checkbox"/> 98 Pokédex ◆
<input type="checkbox"/> 12 Maractus ★	<input type="checkbox"/> 41 Blitzle ●	<input type="checkbox"/> 70 Zorua ●	<input type="checkbox"/> 99 Pokémon Communication ◆
<input type="checkbox"/> 13 Deerling ●	<input type="checkbox"/> 42 Zebstrika ◆	<input type="checkbox"/> 71 Zoroark ★H	<input type="checkbox"/> 100 Potion ●
<input type="checkbox"/> 14 Sawsbuck ★	<input type="checkbox"/> 43 Zebstrika ★	<input type="checkbox"/> 72 Vullaby ◆	<input type="checkbox"/> 101 Professor Juniper ◆
<input type="checkbox"/> 15 Tepig ●	<input type="checkbox"/> 44 Joltik ●	<input type="checkbox"/> 73 Mandibuzz ★	<input type="checkbox"/> 102 Revive ◆
<input type="checkbox"/> 16 Tepig ●	<input type="checkbox"/> 45 Joltik ●	<input type="checkbox"/> 74 Klink ●	<input type="checkbox"/> 103 Super Scoop Up ◆
<input type="checkbox"/> 17 Pignite ◆	<input type="checkbox"/> 46 Galvantula ★	<input type="checkbox"/> 75 Klang ◆	<input type="checkbox"/> 104 Switch ●
<input type="checkbox"/> 18 Pignite ◆	<input type="checkbox"/> 47 Zekrom ★H	<input type="checkbox"/> 76 Klinklang ★H	<input type="checkbox"/> 105 Grass Energy ●
<input type="checkbox"/> 19 Emboar ★H	<input type="checkbox"/> 48 Munna ◆	<input type="checkbox"/> 77 Patrat ●	<input type="checkbox"/> 106 Fire Energy ●
<input type="checkbox"/> 20 Emboar ★H	<input type="checkbox"/> 49 Musharna ★	<input type="checkbox"/> 78 Patrat ●	<input type="checkbox"/> 107 Water Energy ●
<input type="checkbox"/> 21 Pansear ●	<input type="checkbox"/> 50 Woobat ●	<input type="checkbox"/> 79 Watchdog ◆	<input type="checkbox"/> 108 Lightning Energy ●
<input type="checkbox"/> 22 Simisear ◆	<input type="checkbox"/> 51 Swoobat ◆	<input type="checkbox"/> 80 Lillipup ●	<input type="checkbox"/> 109 Psychic Energy ●
<input type="checkbox"/> 23 Darumaka ●	<input type="checkbox"/> 52 Venipede ●	<input type="checkbox"/> 81 Lillipup ●	<input type="checkbox"/> 110 Fighting Energy ●
<input type="checkbox"/> 24 Darumaka ◆	<input type="checkbox"/> 53 Whirlipede ◆	<input type="checkbox"/> 82 Herdier ◆	<input type="checkbox"/> 111 Darkness Energy ●
<input type="checkbox"/> 25 Darmanitan ★	<input type="checkbox"/> 54 Scolipede ★	<input type="checkbox"/> 83 Stoutland ★	<input type="checkbox"/> 112 Metal Energy ●
<input type="checkbox"/> 26 Reshiram ★H	<input type="checkbox"/> 55 Solosis ●	<input type="checkbox"/> 84 Pidove ●	<input type="checkbox"/> 113 Reshiram ★U
<input type="checkbox"/> 27 Oshawott ●	<input type="checkbox"/> 56 Duosion ◆	<input type="checkbox"/> 85 Tranquil ◆	<input type="checkbox"/> 114 Zekrom ★U
<input type="checkbox"/> 28 Oshawott ●	<input type="checkbox"/> 57 Reuniclus ★H	<input type="checkbox"/> 86 Unfezant ★	
<input type="checkbox"/> 29 Dewott ◆	<input type="checkbox"/> 58 Timburr ●	<input type="checkbox"/> 87 Audino ◆	

☐ = standard set ☐ = standard set foil ☐ = parallel set

★H = rare Halo ★ = rare ● = common ★U = rare Ultra



Amazing Animals

CAN YOU
DRIVE A LITTLE
FASTER? I'D
LIKE TO EAT
SOMETIME
TODAY.

BISON RIDES IN CAR

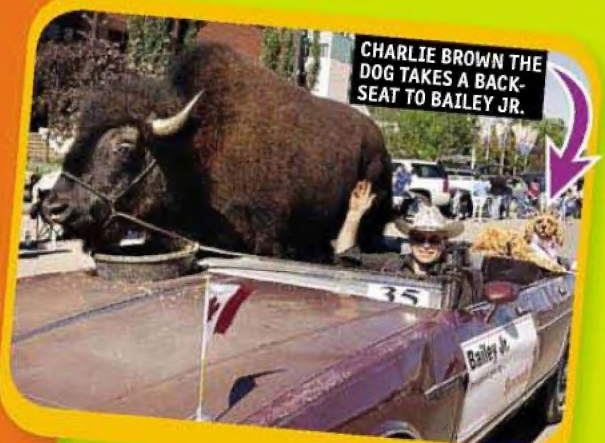
Spruce Grove, Canada

Don't call Bailey Jr. a backseat driver. That'd be impossible, since the bison takes up seats in the front *and* back while riding to the local burger joint or the mall.

Bailey Jr. has been riding in cars since he was a baby. As an orphan he was adopted by Jim Sautner, who needed to bottle-feed the little bison every few hours. So the rancher created a makeshift seat belt, placed the animal in the backseat of his pickup's cab and took him to work every day.

But soon the bison—who eats 13 kilograms of oats and hay a day—quickly outgrew the backseat. Instead of leaving him at home, Jim got a four-door car, removed the car's roof and passenger seats and reinforced the floor boards. "If he sees me leaving without him, he runs along his fence and follows," Jim says. Bailey Jr. doesn't care what kind of car he rides in, as long as his buddy, Charlie Brown the cocker spaniel, can come, too. The bison doesn't mind sharing the ride... as long as the pooch will sit in the back.

— Jamie Kiffel-Alchek



DOG PROTECTS PIGLET



Hörstel, Germany

When Roland Adam found an orphaned newborn Vietnamese potbellied pig alone and shivering on his farm, he wasn't sure what to do. But Katjunga the Rhodesian ridgeback did. She snuggled up to the small pig (now called Paulinchen), cleaning it with her tongue and nursing her as she would her own puppy. "Katjunga lay down, fed her, and kept her warm," Roland says. In fact, this isn't the first time Katjunga cuddled up with orphaned animals—she's also tended rabbits and ducks. "Recently we found her warming up one of our sheep that was sick," Roland says. Sounds like one protective pooch!

— Sarah Wassner Flynn



YOU SMELL
A LOT BETTER
THAN THOSE
OTHER PIGS.

CAT GETS BIONIC FEET



Surrey, England

When Oscar the cat lost his back feet in an accident last year, his owners thought he'd have to be put down. Cats need their back feet for survival. But veterinarian Noel Fitzpatrick had an idea.

Noel and a team of engineers created the first-ever realistic prosthetic cat feet for Oscar. The new feet were based on the way antlers grow from a deer's head. The cat's skin and bones could grow into the prosthetics so they'd become part of his body. Rods were fused into Oscar's leg bones, then special curved "feet"

were attached. (Cats rock on their feet to move themselves forward.) Finally, Noel attached tirelike rubber to the bottom of each foot so Oscar wouldn't slip.

Today Oscar does anything that four-footed cats do, including jumping onto beds, crawling up curtains and even scratching his ears with his plastic feet. Mice, beware: Oscar is on the prowl!

— Jamie Kiffel-Alcheh



WALKING TALL

TAKE A COOL ANIMAL QUIZ—ON YOUR PHONE!

Got a smart phone? With a parent's help, follow these instructions.



- 1 Go to your phone's app store.
- 2 Search for and download a free mobile bar code scanner.
- 3 Open the scanner.
- 4 Aim your phone at the mobile bar code (above) so it's in the middle of the screen.
- 5 Watch what happens!

No smart phone? Take a quiz online at kids.nationalgeographic.com/almanac-2012.



BY MICHELLE HARRIS

Check out these outrageous facts.

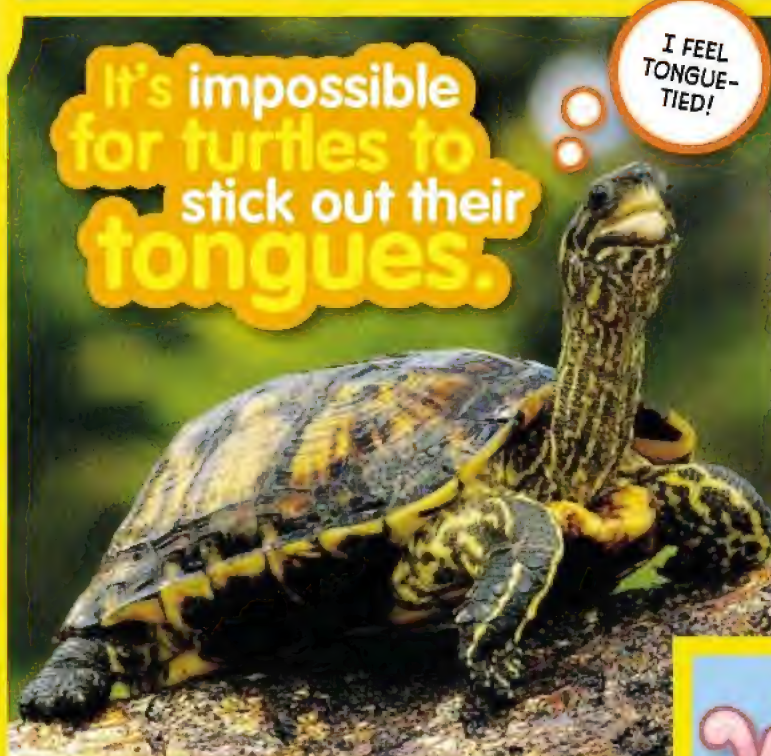
A TRAFFIC JAM IN CHINA LASTED FOR MORE THAN A WEEK.



Rotten eggs float in water.

Mexico City has sunk seven metres in the past 100 years.

KIDS' FINGERPRINTS DISAPPEAR FROM SURFACES FASTER THAN ADULTS' DO.



A Finnish man wrote a novel

made up of

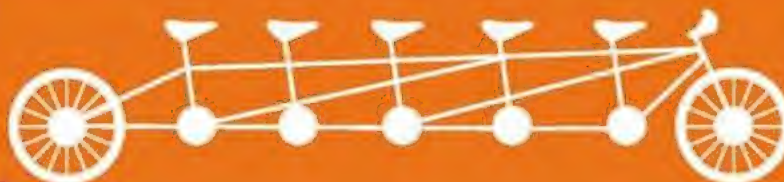
1 000 SMSs.

ANCIENT GREEKS USED

Hula Hoops.

You can buy worms from a vending machine in Japan.

A FIVE-SEAT BICYCLE IS CALLED A QUINDEM.



Prestik's been Smurfed!



To celebrate the return of the Smurfs, Prestik has turned blue! This is for a limited period of time so collect all six packs of Prestik Blue before they sell out. You can win Smurftastic prizes like PS3s, PS3 games, movie tickets, Bostik goodies and much more! See back of pack for details!

Make a Smurf pencil topper using Bostik Crazy Clay and stick it onto your favourite pen or pencil using Prestik Blue.

WIN!

Lets get Smurfed! Can you get creative and think of other cool uses for Prestik Blue? Send us your blue-illiant ideas and stand a chance of winning a fantastic Bostik hamper filled with goodies.

E-mail your ideas to competitions@ngkids.co.za and be sure to put Bostik Smurfs in the subject line of the e-mail.



THE SMURFSTM IN 3D

Blue alert! The Smurfs got chased from their village by the evil Gargamel and now have to try and survive in New York, America! But don't let that make you feel blue. The Smurfs are very smart and don't forget that dynamite comes in small (blue) packets!
In cinemas 30 September 2011.



FOR POLAR BEARS ICE IS BOTH HOME AND HUNTING GROUND. WHAT HAPPENS WHEN THAT ICE BEGINS TO MELT?

A lumbering bear plods along an ice floe. Swimming under the ice, seals can hear it. They don't want to come up for air as long as that hungry polar bear is there.

The bear can smell them. A polar bear can smell seals from more than one kilometre away and under one metre of heavy snow.

This bear scans the horizon and finds what it is looking for—a hole in the ice. Seals use a dozen or more breathing holes at a time. The bear knows that eventually a seal will pop up for air. It just has to be really quiet and really patient first.

Tucking its massive legs beneath its body, the bear sits on the ice. Its nose stretches forward within reach of the hole and waits and waits.

More than an hour passes. Then, in an instant, an unlucky seal pops out of the hole to catch a breath. In that same instant the polar bear pounces. Dinner has arrived.



BY JOHNNA RIZZO

ON THE



© KENNAN WARD / CORBIS

MINNCE

PUTTING ON THE KILOS

Under good hunting conditions a polar bear will usually eat one seal every four or five days. One bear can eat 45 kilograms of blubber, or fat, in one sitting. Eating the fat from the bodies of its prey adds blubber to the bear's body.

Fat is important to polar bears. Blubber helps keep it warm. Female polar bears weigh 150 to 300 kilograms. Males usually weigh double that and much of that weight is blubber.

WAITING FOR A SEAL TO POP UP AT A BREATHING HOLE IS CALLED "STILL HUNTING."

THE ICE KINGDOM

Wild polar bears are found only in the Arctic. The Arctic is the region around Earth's North Pole, which is in the middle of the Arctic Ocean. It is bitterly cold with temperatures falling to as low as minus 40 degrees Celsius.

Although it is an ocean, you could walk across it as the surface freezes into ice. When ice forms over the sea, it doesn't make an even layer like on a skating rink. At first the ice is thin enough for the wind and waves to break it into pieces.

As the pieces of ice get colder, they get thicker. They join together to make larger blocks. As winter comes, the blocks freeze together, forming pack ice.

Most polar bears live and hunt on pack ice. Pack ice is usually about three metres thick and is strong enough to hold a polar bear's weight, as well as that of many Arctic animals.

Many polar bears live in southern regions of the Arctic. There, the pack ice melts in the summer. In places where the ice melts completely, polar bears move onto land.

Land isn't the best place for polar bears because they're cut off from their main food supply. Their ideal habitat is floating slabs of ice close to the water, which teems with fish and seals.

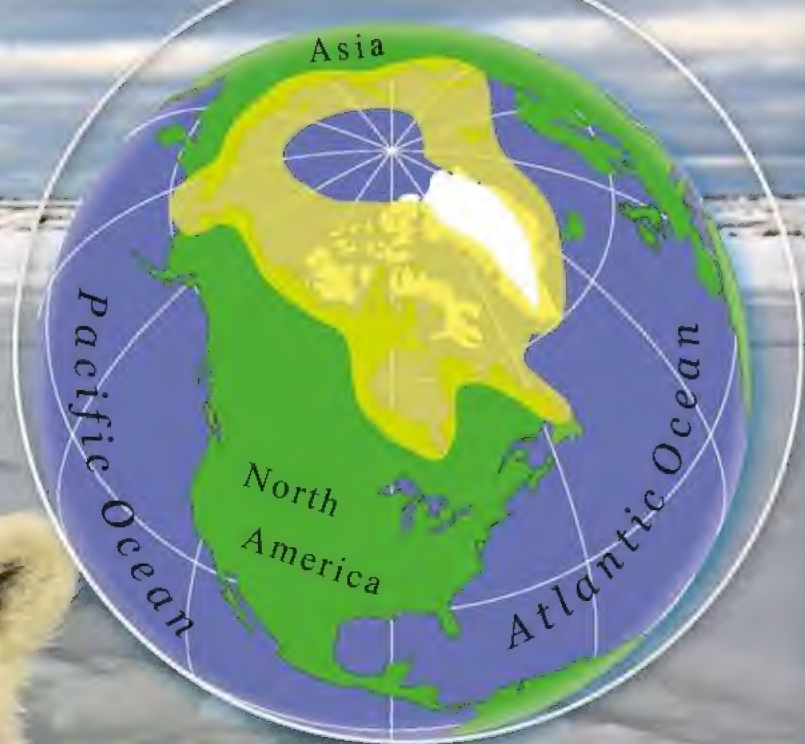
TOO HOT TO HANDLE?

A polar bear's whole life is tied to the seasonal changes in Arctic sea ice. A bear can travel up to 4 800 kilometres a year. It moves from ice to land to ice again. But the ice is changing.

Scientists measuring Arctic temperatures have discovered an alarming trend. The Arctic is heating up. As it becomes warmer, pack ice melts earlier in the year. This gives the bears less time to hunt on the ice, forcing them onto land sooner. But hunting on land is hard work. A polar bear might need to stalk, or silently follow its prey for long distances. The bear must be careful not to overheat. This can be a tall order.

As Earth's largest land predator, a polar bear uses twice the energy to walk than most other mammals. Just 12 seconds of running can burn more energy than it would get from eating a whole seal! Stalking that seal for hours, or even days, can be exhausting.

A POLAR BEAR USES ITS LARGE, WEBBED PAWS TO SWIM.



BEAR TERRITORY

■ Polar Bear Range

A POLAR BEAR POKES THROUGH ICE IN THE ARCTIC.



A POLAR BEAR CUB CLINGS TO ITS MOTHER.

DAINGEROUS ICE

The problem of an earlier melt goes beyond just having to hunt on land. As pack ice melts, the remaining ice is further from shore. Chunks of floating ice are also further apart. Now the gap of open water between the ice and the land is larger. Waves gush through the gaps, tossing ice about. Swimming from shore to pack ice becomes much more dangerous.

Normally, swimming long distances comes naturally to a polar bear. It can swim up to 100 kilometres to get to a hunting ground. And it's fast – swimming up to ten kilometres per hour to catch a fast-swimming seal. It can dive as deep as six metres to chase a seal.

Yet even this strong swimmer can tire. Rougher seas and greater distances between ice floes can prove too challenging for polar bears. With warmer temperatures a polar bear may set out for the next chunk of ice but not be able to make it safely back to shore.



“

Polar bears depend on thick sea ice to hunt and breed.”

PAUL SOUDERS / CORBIS

WATCHING AND WAITING

Scientists are tracking the temperature in the Arctic closely. They have found that rising temperatures are causing the pack ice to melt an average of two weeks earlier than it did just 20 years ago.

That might not seem like a lot, but to a polar bear a few weeks makes a big difference. For each week the ice breaks earlier, the bears come ashore weighing nine kilograms less than they have in the past seasons.

Scientists measuring summer ice in 2010 reported a large melt by June, the beginning of summer in the Arctic. It continued to melt well into September, when it normally begins to freeze over.

Warmer weather is a disaster for polar bears. In some areas the bears already must eat enough food in only three or four months to last them for the rest of the year.

What does the future hold for polar bears? Scientists in the Polar Bear Specialist Group have been studying 19 groups of bears. Only one of these groups is bigger than during the previous study. It's a small hope that polar bears can adapt. The main threat is global warming. If we can reduce the warming, it will help the polar bear survive.

Clean-up & Recycle

Keep litter off our streets and out of our rivers, dams and oceans.

12 – 17 September

Clean-Up SA Week
www.cleanup-sa.co.za

16 September

National Recycling Day
www.recyclingday-sa.co.za

17 September

International Coastal Clean-Up



The Plastics Industry Taking Action.

Proudly supporting Clean Up South Africa month

Plastics | SA

petco
PET plastic recycling south africa

Polystyrene
PACKAGING COUNCIL

SAVA

124 M VELD
KZN WILDLIFE

Plastics Industry
Enviromark

NATIONAL GEOGRAPHIC KIDS
NATIONAL GEOGRAPHIC

NATIONAL
Douw Steyn
douw.steyn@plasfed.co.za

FREE STATE
Duart Hugo
hugod@detea.fs.gov.za

KWAZULU NATAL – Coastal
Wayne Munger
mungerw@kznwildlife.com

CAPE PROVINCES
John Kieser
john.kieser@plasfed.co.za

www.plasticsinfo.co.za

AMUR TIGER

Scientists teach an orphaned cub to fend for himself.

BY ALINE ALEXANDER NEWMAN

Like a homeless kitten, a lone Amur tiger cub wanders aimlessly around an isolated village in southeastern Russia. Its scraggly, matted fur makes the little creature appear more ragged than cute. The February day is a wintry minus 15 degrees Celsius and a blanket of snow covers the ground. The lost, lonely cub is starving.

AT ONLY TWELVE WEEKS, this little tiger is much too young to know how to hunt. His mother is nowhere to be seen. He could not survive on his own.

Two wildlife experts find the cub huddled in a doghouse. They easily capture the cub, which is too weak to resist and take him to a veterinarian. On the examining table, the grubby kitty looks half dead. He's so scrawny his bones stick out. He has dried blood caked on his fur and he's covered with dog bites.

The vet washes the cub's wounds and gives him antibiotics to ward off infection. Afraid the cub might catch pneumonia, the vet puts him in an enclosure away from other animals. This "tiger isolation ward" has an exercise area and a comfy wooden den with a pile of sweet-smelling hay

where the tiger can relax.

The cub gets a high-calorie porridge rich with nutrients, which he eagerly devours. And the staff gives him a name: Oleg.

OLEG GAINS WEIGHT.

To everyone's relief he's healthy. Now a difficult decision must be made: what should they do with him? Most rescued tigers end up in zoos, which have played a major role in preventing the species from becoming extinct.

But there are only about 350 Amur tigers living in the wild. Since Oleg was born free, Ian Robinson of the International Fund for Animal Welfare thinks he deserves to stay that way. "We believe wild animals belong in the wild," he says.

The trouble is that the big cats are dangerous predators, especially if they lose their fear of people. "The main goal with tigers like Oleg is keeping them wild," says Ian. "Rehabilitated ones might become problem animals that attack and kill livestock. Or humans." Even so, he believes Oleg can be rehabilitated – if it's done right.

IAN FLIES to Russia to evaluate the cub. "If he walked out and rubbed up against the bars of his pen when people are there, we couldn't let him go," he says. "But this one hides at the back of the cage with his ears flat against his head, spitting like an angry, wild kitten."

Ian is delighted with the animal's spunk. Oleg is moved into a specially built, tree-filled enclosure with plenty of room to roam.

Letting him go won't work, say some tiger experts. They think cubs learn to hunt by watching older tigers and that humans can't show them how it's done.

Rescue



SHOWING A HEALTHY FEAR OF HUMANS

IAN THINKS otherwise. "Hunting is an instinct, not learned," he says. "Our job is getting Oleg strong for the chase." His plan moves forward. Oleg's caregivers establish two rules. No one is allowed near the tiger's pen and he is fed only natural prey from the forest – never lamb or beef. That way he won't develop a taste for farm animals. By September the tiger weighs a healthy 69 kilograms.

IT'S TIME TO LET HIM GO.

Oleg is put into a transportation cage and driven to a forest in a wildlife reserve. A scientist opens the cage door by remote control. "The tiger came out like a rocket," says Ian. "He was gone!"

No one has seen Oleg since. But he wears a satellite radio collar and scientists monitor his movements. Ian bets that Oleg will stay healthy and wild. Then the experiment will prove a success. Scientists will release more tigers and the wild population will continue to grow.



TIGER DENTAL CHECKUP

GER

le

I LOVE
CHILLIN' WHILE
I WAIT FOR MY
NEXT MEAL TO
WALK BY.

NG KIDS
is on

MXIT

Add us as a
contact and get
more cool stories
on your phone!

NATIONAL GEOGRAPHIC

KIDS

**YOUNG
PHOTOGRAPHERS
COMPETITION**

brought to you by *Spur*

NATIONAL GEOGRAPHIC

**IT'S TIME TO ENTER
THE SIXTH
NG KIDS YOUNG
PHOTOGRAPHERS
COMPETITION!
GET THOSE
CAMERAS READY:
YOU CAN
WIN AWESOME
PRIZES!**



CHRISTEL BREMER, 13, UTRECHT
TITLE: "STEEKHAAR"

WHAT TO DO:

- Take a picture of anything that catches your eye in one or more of the categories using a camera or a cell phone.
- You can enter up to four pictures (one for each category).
- You don't need a top-of-the-range camera to take a winning picture. It's more about looking at the world in a different way so that when you see something interesting or inspiring you're ready to go "click"!
- Entries open on 24 August and close on 15 November 2011.

WAYS TO ENTER:

1. Turn to page 24 for entry form.
2. E-mail and MMS your entries to: ypc@ngkids.co.za. Remember to write NG KIDS YPC in the subject line and include your photo title, category and age group.
3. Post your entry to: NG KIDS Young Photographers Competition, PO Box 2271, Cape Town 8001.
4. Visit the NG KIDS SA fan page on Facebook.
5. Deliver your entry to: NG KIDS, 8th floor, Media City, 1 Heerengracht, Cape Town

That's Funny!



ANDREW STONE, 11,
JOHANNESBURG
TITLE: MONKEYING AROUND

CATEGORIES:



I love South Africa



AMANDA WATT, 13, DURBAN
TITLE: DURBAN BY NIGHT

SINÉAD WORTLEY, 11,
JOHANNESBURG
TITLE: BUSI FROM Ithemba Home



People



Animals

**A PANEL OF
EXPERTS WILL
JUDGE THE
ENTRIES BASED
ON CREATIVITY
(50%) AND
PHOTOGRAPH
QUALITY
(50%). THE
DECISION OF
THE JUDGES IS
FINAL.**



WIN!

EACH OF THE 12 FINALISTS (THREE IN EACH CATEGORY) WILL WIN A R350 SPUR MEAL VOUCHER, A YEAR'S SUBSCRIPTION TO NG KIDS, A NIKON COOLPIX S3100 CAMERA AND A PAIR OF ACTION BX40 BINOCULARS COURTESY OF NIKON!

THIS IS WHERE YOU'LL STAY IF YOU WIN.



SANBONA WILDLIFE RESERVE

OPEN TO ALL KIDS BETWEEN THE AGES OF 6 AND 14.

TURN THE PAGE FOR OUR TERMS AND CONDITIONS AS WELL AS AN ENTRY FORM.

THE WINNER WILL ALSO BE ENTERED INTO THE INTERNATIONAL PHOTOGRAPHY CONTEST 2011 FOR KIDS AND COULD WIN A TRIP TO WASHINGTON IN AMERICA TO VISIT THE NATIONAL GEOGRAPHIC SOCIETY!



BE QUICK! THE FIRST 30 ENTRANTS WILL RECEIVE A R100 VOUCHER FROM SPUR.

Grand prize:

The overall winner will get a fantastic Nikon D3100 camera and kit worth R6 500 AND a family holiday for four (two adults and two children up to the age of fifteen) courtesy of The Shamwari Group at Sanbona Wildlife Reserve. Only three hours from Cape Town, Sanbona boasts 54 000 hectares of undulating mountains and plains, indigenous flora and fauna, rock formations and rock art. The winner will enjoy three nights at the lodge including all meals, game drives and selected beverages. The holiday is worth R54 000. Visit www.shamwarigroup.com. E-mail reservations@sanbona.com or call 041-407-1000 for more information.



NG KIDS YOUNG PHOTOGRAPHERS COMPETITION IS PROUDLY SPONSORED BY SPUR.



Prizes sponsored by:

Nikon

SHAMWARI GROUP

Sanbona WILDLIFE RESERVE

itime.co.za
MORE NICE. LESS PRICE.



NG KIDS YOUNG PHOTOGRAPHERS COMPETITION ENTRY FORM



FULL NAME: **AGE:** **BIRTH DATE:**

PHYSICAL ADDRESS:

SCHOOL:

PHOTOGRAPH TITLE/S:

CATEGORIES: (you can enter up to four pics)

This is my own original work and I give NG KIDS permission to publish and display my photographs. I agree that the photographs become the property of NG KIDS and that all rights are transferred to NG KIDS.

☐ **ANIMALS**

☐ **I LOVE SOUTH AFRICA**

☐ **PEOPLE**

☐ **THAT'S FUNNY**

SIGNATURE

TELEPHONE NUMBERS: **HOME** **GUARDIAN'S CELL**

NAME OF GUARDIAN:

TERMS AND CONDITIONS:

1. The competition opens on 24 August and closes on 15 November 2011.
2. It is open to all readers who are between six (6) and fourteen (14) years of age on 1 November 2011.
3. All photographs must be the entrant's own work.
4. Only one photograph for each category per entrant will be accepted.
5. All entries remain the property of NG KIDS and we regret that we cannot return any photographs or CDs.
6. Please supply a residential, rather than a P.O. Box address.
7. NG KIDS and the National Geographic Society retain the right to use all entry images in post-competition publicity throughout the world. We reserve the right to exhibit and reproduce photographs with a credit to the photographer. The winners have the right to decline to have their name advertised or listed publicly. In this instance NG Kids/NGS reserves the right to publish their photograph without credit and by entering into this competition they have accepted this.
8. The National Geographic Society and Media24 accept no responsibility for loss and damage.
9. Finalists will require a model release for any recognizable people in the photograph, if feasible; a location release for any private property in the photograph, if feasible; and a copyright license from any authors of works that appear in the photograph, if feasible.
10. The finalists and winner will be notified telephonically by mid January 2012

and their names will appear in the March 2011 issue of NG KIDS magazine. 11. MMS entries are charged at standard rates. Free minutes do not apply. 12. Prizes are non-exchangeable and no cash alternative will be offered. 13. Allow two months from winners announcement for delivery of prizes. 14. A panel of experts will judge the entries based on creativity (50%) and photograph quality (50%). The decision of the judges is final and no correspondence will be entered into. 15. Employees of Media24, sponsors and their agents or any company associated with the competition and their immediate families are not eligible to enter. 16. Photographs must have been taken within three years before date of entry. 17. Digital entries must be 5 megabytes or smaller and must be in jpeg format. A low res version can be sent as long as hi res is available for printing. 18. Originals must be available in print ready format. 19. Minor burning or colour correction, cropping and the use of a fish-eye lens is acceptable. Other digital manipulation other than the above is not acceptable and will render the photograph ineligible for entry into the competition. 20. Entrants living outside of South Africa accept that costs such as travel to South Africa and postage will be incurred in the event of winning a prize. 21. The first thirty entrants will receive a R100 voucher from

Spur. 22. Twelve finalists will each win a Spur meal voucher, a year's subscription to NG KIDS, a Nikon Coolpix S3100 camera and a pair of Nikon Action 8x40 binoculars. 23. The overall winner will receive a Nikon D3100 camera and kit worth R6 500 and a family holiday for four to Sanbona Wildlife Reserve, courtesy of the Shamwari Group. 24. The Sanbona Wildlife Reserve prize includes flights, transfers and three nights' accommodation at Gondwana Family Lodge, meals, selected beverages and all game drives for two adults and two children up to the age of fifteen and must be taken within six months of the winner being notified. Extras such as beverages (those not included in the prize), telephone, laundry, curios, gratuities and other additional expenses are not included. Airport taxes will be for the winner's account. Persons under the age of 16 are not allowed on walking safaris. 25. The entrant accepts that entry to the competition does not constitute a contract or any form of legal commitment between the entrant and NG KIDS. 26. NG KIDS/Media24 or the National Geographic Society shall not assume liability for any ambiguity, error, oversight or omission whether negligent or otherwise which may be committed by any employee of NG KIDS, their agents or associates in respect of this competition. 27. Entry signifies acceptance of the rules. For full terms and conditions refer to www.ngkids.co.za.

NATIONAL GEOGRAPHIC KIDS
SUBSCRIBE OR RENEW NOW!

SMS
"NGK SEP" to
32361* and we'll
call you back.

CALL
0860-103-578
(share-call)

E-MAIL
[ngkids_subs@
media24.com](mailto:ngkids_subs@media24.com)

SUBSCRIBE TO NG KIDS FOR ONLY R264,69!

☐ **YES! Please sign me up for 12 issues of NG KIDS for only R264,69!**

☐ **ENGLISH**
☐ **AFRIKAANS**

☐ **YES! Please renew my subscription for 12 issues of NG KIDS for only R264,69!**

☐ **ENGLISH**
☐ **AFRIKAANS**

DETAILS OF PERSON PAYING FOR SUBSCRIPTION:

Name Surname
Address Postal code
Tel Cell E-mail
Debit my account with: R264,69

PAYMENT OPTION 1: Credit card

Card No.
Expiry date
CVC (Three digits on back)
Visa ☐ Mastercard ☐ Diners ☐ Amex ☐

PAYMENT OPTION 2: Debit account

Bank
Branch Branch Code
Account No.
Account: Savings ☐ Transmission ☐ Cheque ☐

PAYMENT OPTION 3: Cheque or postal order

Cheques or postal orders (in favour of Media24) can be posted to Media24 Magazines, Free Post number CB0006, Cape Town 8000. Direct deposits to Media24 can be made into our ABSA bank account using your initial and surname as reference (Acc. no. 4051828011, Branch code: 506009). Fax or e-mail a confirmation slip and completed subscription form to 021-405-1033 or ngkids_subs@media24.com. For more payment options call 0860-103-578 or log on to www.ngkids.co.za. Please allow 4 to 6 weeks for first delivery.

READER'S DETAILS:

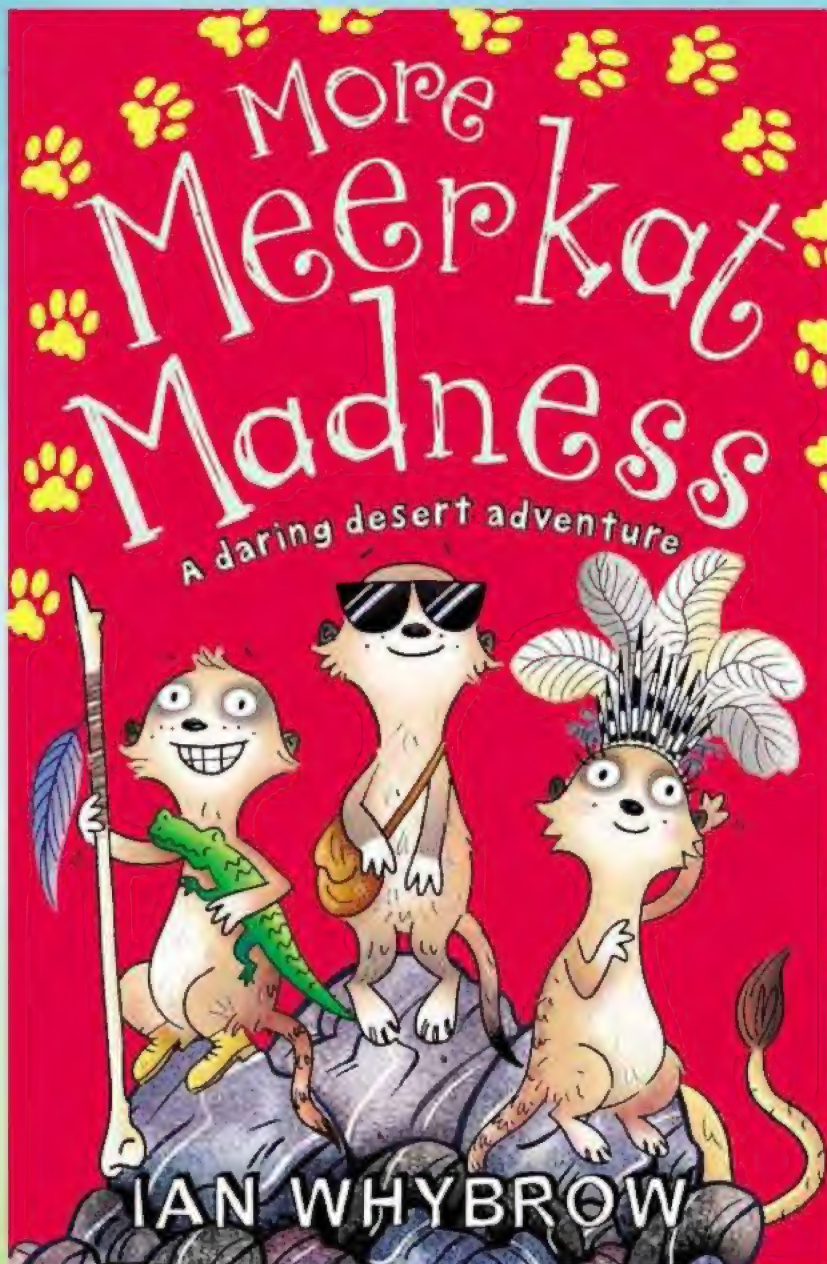
To: Name Surname
Address Postal code
Tel Cell E-mail
Birth date
Age



NGKSEP11

SIGNATURE

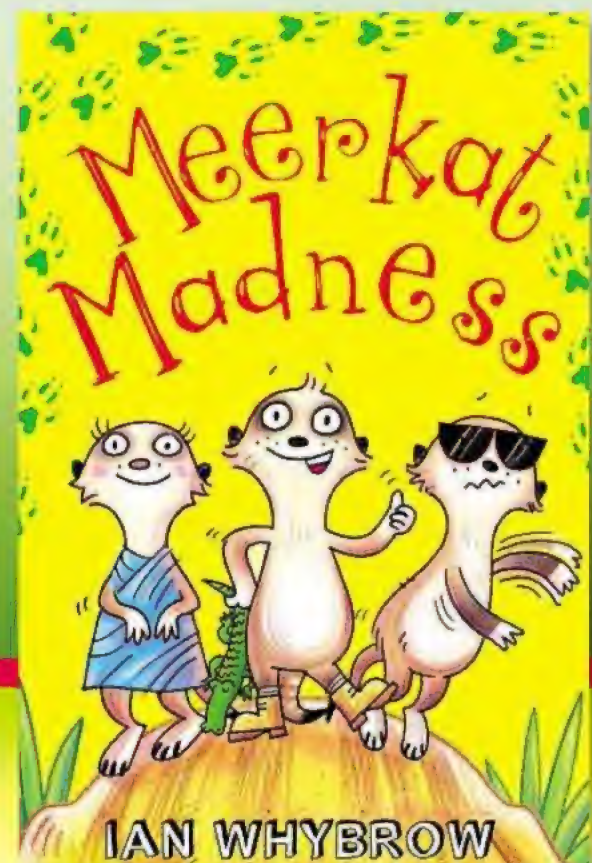
*Ask an adult's permission first! SMSs cost R1. Free SMSs don't apply. This offer is open to the first 250 subscribers. Offer valid until 20 September 2011. We reserve the right to replace the featured gift with one of equal value. Offer is open to SA addresses only. Please call 021 405 1905 for international rates.



More Meerkat Madness

More hilarious
adventures featuring
Uncle Fearless,
Skeema, Mimi and
Little Dream—
the all-star cast of
Meerkat Madness.

Now available
in all good
bookstores.



HarperCollins  JonathanBallPublishers

SPRINGBOKS IN NEW ZEALAND

THE SPRINGBOKS WILL BE COMPETING AGAINST 19 OTHER TEAMS AT THE RUGBY WORLD CUP IN NEW ZEALAND. RECORD THE SCORES FOR THEIR GAMES IN POOL D AND HOPEFULLY THE WHOLE WAY THROUGH TO THE FINAL!

DID YOU KNOW?
Bakkies Botha is 2,2 metres tall!

Six cool facts NEW ZEALAND

- Wherever you live in New Zealand you are only an hour away from the ocean.
- Wellington where the Boks will play their first game is the capital of New Zealand.
- It is situated about 900 kilometres east of Australia across the Tasman Sea.
- English, Maori, and New Zealand sign language are the official languages.
- New Zealand is made up of two main islands called North Island and South Island.
- It has a very long coastline. At just over 15 000 kilometres, this is five times as long as South Africa's coastline.

MAP OF NEW ZEALAND



BAKKIES BOTHA
PROVINCE: BLUE BULLS



POOL D MATCHES:

The Springboks are in Pool D with teams from Fiji, Namibia, Wales and Samoa. New Zealand is in a different time zone. Match times are for South Africa.

QUARTER

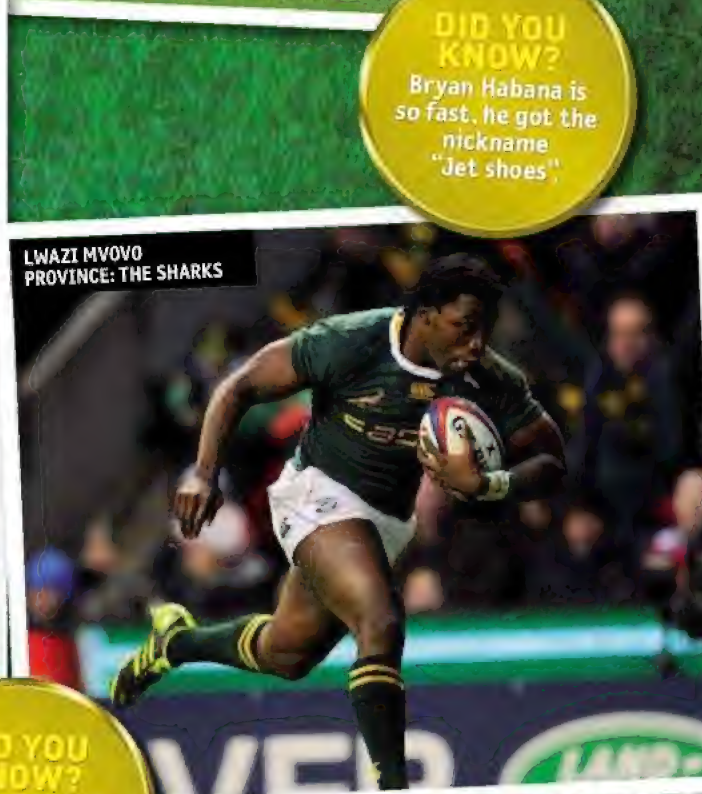
SCORE	SOUTH AFRICA	VS	WALES	SCORE	SCORE	TEAM	V
		Sunday, 11 September in Wellington 10.30 am					Saturday, in Wellington
SCORE	SOUTH AFRICA	VS	FIJI	SCORE	SCORE	TEAM	V
		Wednesday, 17 September in Wellington at 8 am					Saturday, 8 Auckland
SCORE	SOUTH AFRICA	VS	NAMIBIA	SCORE	SCORE	TEAM	V
		Friday, 22 September in Auckland at 10 am					Sunday, 9 in Wellington
SCORE	SOUTH AFRICA	VS	SAMOA	SCORE	SCORE	TEAM	V
		Friday, 30 September in Auckland at 9.30 am					Sunday, 9 Auckland



PROVINCE: BLUE BULLS



ELTON JANTJIES
PROVINCE: GOLDEN LIONS



LWAZI MVOVO
PROVINCE: THE SHARKS

DID YOU KNOW?
Bryan Habana is so fast, he got the nickname "Jet shoes".



BRYAN HABANA
PROVINCE: WESTERN PROVINCE

DID YOU KNOW?
The Springboks played their first test against the All Blacks in 1921.

*The players on this page are named as part of the Rugby World Cup Preliminary Squad. The final squad could include other players.

SEMI-FINALS:

VS
8 October
on at 7 am

TEAM

SCORE

SCORE

VS
Saturday, 15 October
in Auckland at 10 am

TEAM

TEAM

SCORE

VS
10 October in
at 9:30 am

TEAM

SCORE

SCORE

VS
Sunday, 16 October
in Auckland at 10 am

TEAM

TEAM

SCORE

VS
10 October
on at 7 am

TEAM

SCORE

SCORE

VS
Friday, 21 October in
Auckland at 9.30 am

TEAM

TEAM

SCORE

VS
10 October in
at 9:30 am

TEAM

SCORE

SCORE

VS
Sunday, 23 October
in Auckland at 10 am

TEAM

TEAM

SCORE

BRONZE FINAL:

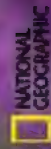
FINAL:





Polar bear

© 2011 NATIONAL GEOGRAPHIC SOCIETY • NATIONAL GEOGRAPHIC, NATIONAL GEOGRAPHIC KIDS, AND YELLOW BORDER DESIGNS ARE TRADEMARKS OF NATIONAL GEOGRAPHIC SOCIETY • ALL RIGHTS RESERVED • PHOTO © BETTY IMAGES





I'M
TOUGHER
THAN I
LOOK!

Sea otters
are related to
skunks,
weasels,
badgers and
river
otters.

“They are extraordinarily
tough animals.”

SEA OTTERS:

Supercute, Supertough

These fuzz balls have incredible survival skills.

BY RUTH A. MUSGRAVE

Bursting from the depths of frigid Alaskan waters, a sea otter holds her prize: a lifeless giant Pacific octopus. She quickly rolls onto her back to use her stomach as a table. The enormous octopus drapes over her body like an oversized tablecloth. As astonished researchers watch the otter devouring the feast, they can only imagine the epic battle that must have occurred under the water. "I've never seen an otter bring up such large prey, but it's not surprising," says marine biologist Chris Marshall. "They're extraordinarily tough animals."

A sea otter may look like a cute, gentle ball of fur, but they are rugged, resilient, wiry predators that battle prey,

the environment and other otters every day. In fact, most humans couldn't do what otters do. Here's why they deserve a reputation as the tough guys of the ocean.

SEA SURVIVOR

A sea otter is about the same size as an 11-year-old kid – but

it's a whole lot tougher. Otters spend nearly their entire lives just beyond the breaking waves. Whether it's stormy or calm, winter or summer, they eat, sleep, fight, mate and give birth on the surface of the sea.

Otters live within 800 metres of the shore and stay within a three-kilometre area year round.

Sea otters are found along the coast of the North Pacific Ocean in North America and Asia.





Only a **female** and her pups will **hunt** in groups or **share** food.

DIVING FOR DINNER

An otter has as many as **one million** hairs in **one square centimetre** of skin.

People would be lucky to last 20 minutes in an otter's home before hypothermia – a deadly drop in body temperature – sets in and their bodies shut down. That's because you lose body heat 25 times faster in the water than in the air. Other marine mammals such as whales and walrus have blubber – a thick layer of fat – to keep them warm. Sea otters don't. They rarely, if ever, climb out of the water. So how do they survive?

ULTIMATE FUR COAT

A sea otter wears a luxurious fur coat. You have about 100 000 hairs on your entire head. An otter has about 800 *million* hairs on its body. The fur is the otter's shield from the sea. Only the outer layer – the tips of the hairs – gets wet. The thick coat and natural oils keep the skin and underfur dry. Air trapped between the fur and skin keeps an otter insulated

from the icy water.

If the fur gets dirty or damaged and its skin gets wet, an otter can die quickly of hypothermia. Because its fur is the only thing protecting a sea otter from the heat-stealing ocean water, the marine mammal spends nearly half of its day cleaning, combing, and fluffing its coat.

FEEDING FRENZY

To stay warm, an otter also relies on a fast metabolism. This internal furnace is always set on extra hot. To fuel that furnace and because an otter doesn't store fat to turn into energy, it must eat massive amounts of food every day. Their prey includes sea urchins, crabs, octopuses and fish as well as shellfish such as abalones, mussels and clams.

"Otters are ravenous eaters," says marine biologist Lori Timm. "To survive, an average adult sea otter needs to eat 6 750 calories a day. That's three times more calories than a kid needs!"

A daily menu might be seven abalone, 37 cancer crabs, 50 sea urchins, or 157 kelp crabs – or some similar combination of prey. That's equal in calories to 28 hot dogs with buns, 42 scoops of chocolate ice cream, 127 apples or almost 2 000 small sweets.

Having to eat 2 000 sweets might sound good, but what if you had to make 2 000

An otter eats **20 to 30 percent** of its **body weight** a day – that's **six to eight kilograms** of food.



RELAXING BETWEEN MEALS

ENJOYING A
TASTY SNACK.

An otter's
tail is about
one-quarter
the length
of its body.



Otters have
nostrils and
ears that close
in the water.

dives to do it? Otters eat at the surface and often eat only one thing at a time. To eat 150 kelp crabs, the otter needs to make at least 150 dives. And it takes about six dives to pry just one abalone from a rock.

SUPER STRENGTH

Using tools such as rocks to crack open shells is all the rage with otters in California, but it isn't always necessary. That's because sea otters are like superheroes when it comes to strength. Alaskan sea otters crack open dinner with their teeth! A hard clam or mussel shell is no match for an otter's powerful jaws and strong teeth.

A person would have to make several dives, use a special sharp tool and have lots of luck to pry a firmly anchored abalone from its rock. An otter has only its paws and an occasional rock. The otter also uses its strong paws to snatch and overpower large crabs while avoiding their dangerous claws.

Superswimmers, supereaters, superdivers – sea otters definitely deserve their reputation as supertough marine mammals.

Male northern
sea otters
weigh up to
45 kilograms.
Large females weigh
up to
32 kilograms.



CATCHING A
RIDE ON MUM

4 BREAKFAST

BY JULIKA KENNAWAY AND ANDREW COOK

If you'd like a change from oats or eggs in the morning, take a look at what other kids eat in different countries.

BALI

PISANG GORENG (FRIED BANANAS)

Bali is a tropical island in Indonesia. It is known for its friendly people and is a popular tourist destination.

WHAT YOU NEED

- 4 tablespoons flour
- 2 tablespoons sugar
- $\frac{3}{2}$ teaspoon salt
- 3 bananas
- 50 grams palm sugar (from coconut palm tree sap)
- Cinnamon - $\frac{1}{2}$ - 1 teaspoon
- Water or 1 egg

HOW TO MAKE IT:

1. Mix the flour, sugar and salt in a bowl. Add one banana and mash it into the mixture.
2. Pour some water (or one egg) into the mixture and mix it in (it should be quite wet!)
3. Slice the other bananas into halves (ask a parent to slice for you).
4. Heat lots of oil (not olive oil) in a wok or big pan.
5. Dip your sliced banana into your flour and banana mixture. Make sure it's well covered with the mixture.
6. Carefully place the dipped banana pieces into the hot oil (ask your parent to help). Let the bananas sizzle in the oil until they're crispy brown.

TO MAKE THE SYRUP

Heat the palm sugar and cinnamon in a small pan with a little water, so it's a thick but runny mixture. Use low heat and keep stirring!

When the bananas are ready to serve, pour the palm sugar and cinnamon syrup over the top.

DID YOU KNOW?

For breakfast, kids in Indonesia also eat *nasi goreng* (fried rice with vegetables, fish, meat or tofu and a fried egg on top), *bubur injin* (black rice pudding made with black rice and coconut) or *ketela pohon* (tapioca with coconut)

NITA ANGGRA DYANTI, (12) DECORATED HER FRIED BANANA WITH FRANGIPANI AND HIBISCUS FLOWERS. SHE CUT THE BANANA LEAF INTO THE SHAPE OF A SUN.



FROM AROUND THE WORLD

DID YOU KNOW?

For breakfast, kids in the Congo also eat cooked cassava with peanuts, pap or porridge made from sorghum or corn, or a thick stew made with baby marrow.

HOW TO MAKE IT:

1. Wash and peel the potato and cut into small pieces.
2. Put the potato into a saucepan. Add a little water, just covering the bottom. Add a pinch of salt.
3. Cover with a lid and heat until tender (about 15 to 20 minutes).
4. Take off heat and mash the potato.

TO PREPARE THE PEANUTS

Fry the peanuts in a saucepan and stir until they are slightly brown. Don't use oil. Let them cool a little. Pound the nuts in a mixer or with a pestle and mortar.

Add the nut paste to the mashed potatoes. Put it in a bowl—you can add some honey or a banana. Eat it warm.

DRC

SWEET POTATOES WITH GROUND PEANUTS

The Democratic Republic of the Congo (DRC) is situated in central Africa on the Equator. The DRC is famous for its gorillas and chimpanzees, the Congo river (the second longest river in Africa) and tropical rainforest.

KETSIA KASONGO LENG (12) LIVES IN CAPE TOWN BUT ENJOYS A TRADITIONAL BREAKFAST.



WHAT YOU NEED

- Sweet potato (one each depending on size)
- Peanuts with skins— $\frac{1}{2}$ cup or 1 tablespoon
- Peanut butter
- Pinch of salt

FRANCE

BAGUETTE WITH BUTTER AND JAM, DIPPED INTO HOT CHOCOLATE

France is famous for its Eiffel Tower, fashion and food!



LUCIE WHITELOCK (8) ENJOYING HER FRENCH BREAKFAST.

HOW TO MAKE IT:

1. Heat two cups of milk in a saucepan.
2. Add four teaspoons of drinking chocolate.
3. When it's hot (not boiling), pour into a bowl.
4. Slice some baguette and spread with butter and your favourite French jam.

Drink your hot chocolate from a bowl and dip in your baguette.

DID YOU KNOW?

As a treat kids also eat croissants or "pain au chocolat"—albeit like croissants with chocolate in the middle!

WHAT YOU NEED

- Baguette
- Butter
- Jam
- Drinking Chocolate powder milk

INDIA

MANGO LASSI WITH DOSAS AND CHUTNEY

India is a huge country with 1.2 billion people. The Himalayan region in the North has some of the highest mountains in the world. Some of India's famous protected areas are in South India like the Project Tiger reserves set up to protect one of India's most endangered animals.

BREAKFAST IN INDIA
SOMETIMES INCLUDES
CHUTNEYS OR CURRY.



WHAT YOU NEED

- one ripe mango
- one cup yoghurt
- 1/2 cup milk
- three teaspoons sugar
- some ground cardamom (an Indian spice)

DID YOU KNOW?

There is great variety in Indian cuisine and popular breakfast foods vary from region to region. Eggs scrambled with spices, potatoes and onions are popular in the morning, as are fresh fruits and yogurt.

HOW TO MAKE MANGO LASSI:

1. Peel the mango and cut it into pieces. Throw the pip away. Then chill the mango, milk and yoghurt in the fridge or freezer. A Lassi is nicer cold.
2. Now put the mango, yoghurt, milk and sugar into your blender and blend them for two minutes.
3. When your lassi is smooth and a little bubbly on the top, pour it into a tall glass, sprinkle with a little ground cardamom and pop in a straw. It's ready! Some kids in South India prefer a salt lassi to a sweet lassi. If you want to try this, use 1/2 teaspoon of salt in your lassi instead of the sugar. (Some people also leave out the mango.)

TO MAKE DOSAS

Mix the dosa flour with water to make a thin batter. Heat the pan. Pour in a little dosa batter and cook a thin, crispy pancake. While it's still warm, roll the pancake up and eat it with coconut chutney or tomato sauce. Do it again!

WHAT YOU NEED

- water
- dosa flour or Dosa Mix (You can get this from your local Indian food shop.)



South Indian facts:

- Many people in South India speak Tamil. Practice this: Vanakkam! It means "hello" in Tamil.
- Dosas taste great with coconut chutney. In fact, a lot of South Indian food has coconut in it. That means South Indians have to practice climbing tall coconut palms a lot. It's scary.
- South India is not a country – it's only the southern part of India. People have been living in South India since 8 000 BC. Today, more than 230 million people live there.
- You get tigers in South India. Tigers are beautiful but they are a rare and endangered species. The Nagarjunsagar Wildlife Sanctuary is one important tiger reserve in South India.
- Did you know that most South Indian people prefer to eat all of their meals using their hands (and not knives or forks)? Try it sometime. It's not easy, but it's fun!

ANDREW COOK (INDIA)



Let's Jump!

HELP NATIONAL GEOGRAPHIC KIDS SET A GUINNESS WORLD RECORD!

Take part in the week of 10 October 2011 to set the record for the most people doing Jumping Jacks in 24 hours.

Can exercise be fun? Of course, especially when you're setting a Guinness World Record while you are breaking a sweat! Join NG KIDS readers around the world who will be doing Jumping Jacks for one minute.

WHAT TO DO

- Check out the rules first! For official record rules, registration details, games and more, go online to: kids.nationalgeographic.com/lets-jump.
- Prepare for the jumping. Practise doing your Jumping Jacks for one minute.
- The attempt will take place during the week of 10 October 2011. Check the website for more details closer to the time.
- On the Guinness World Record day you can do the one minute of Jumping Jacks on your own, with a bunch of friends or your entire school.

DID YOU KNOW?

The White House has a swimming pool, a tennis court, a jogging track and a bowling alley.

A group of NG KIDS SA readers doing Jumping Jacks on Table Mountain.



The White House in Washington D.C., America.



The event kicks off in Washington D.C., America with First Lady Michelle Obama doing Jumping Jacks at the White House.

COOL inventions

BY CATHY LU

UNDERWATER SCOOTER

Explore an underwater cave, follow a school of clown fish or look a dolphin in the eye. With the HydroBOB you can putter around the ocean depths without a mask, flippers or mouthpiece. Just dive into the water, pop your head inside the bubble helmet and swing your leg over the seat. Use the handlebars to steer left and right, press a button to keep the vehicle moving and use its air bag to control depth. The clear dome allows you to breathe underwater for an hour (thanks to an onboard air tank) and gives you a 180-degree view of your surroundings – from that friendly turtle on your left to the dark, darting shadow on your right. Uh-oh, maybe it's time to scoot.

FRIDGE OF THE FUTURE

HELP YOURSELF!

You are hungry and head for the refrigerator. Reaching into the green goo, you pull out some fresh cheese. The Bio Robot concept fridge uses a green gel to store and cool food. The gel is spongy enough for you to swap items in and out, but solid enough that it doesn't cling to your food. To put the cheese back in the fridge, find an open spot and push it into the gel. The gel moulds itself around the cheese as tiny "computers" figure out what it is. The computers then adjust the temperature of the gel to keep the cheese fresh. Everything is easy to see, so you no longer need to worry about forgotten food turning into science projects.

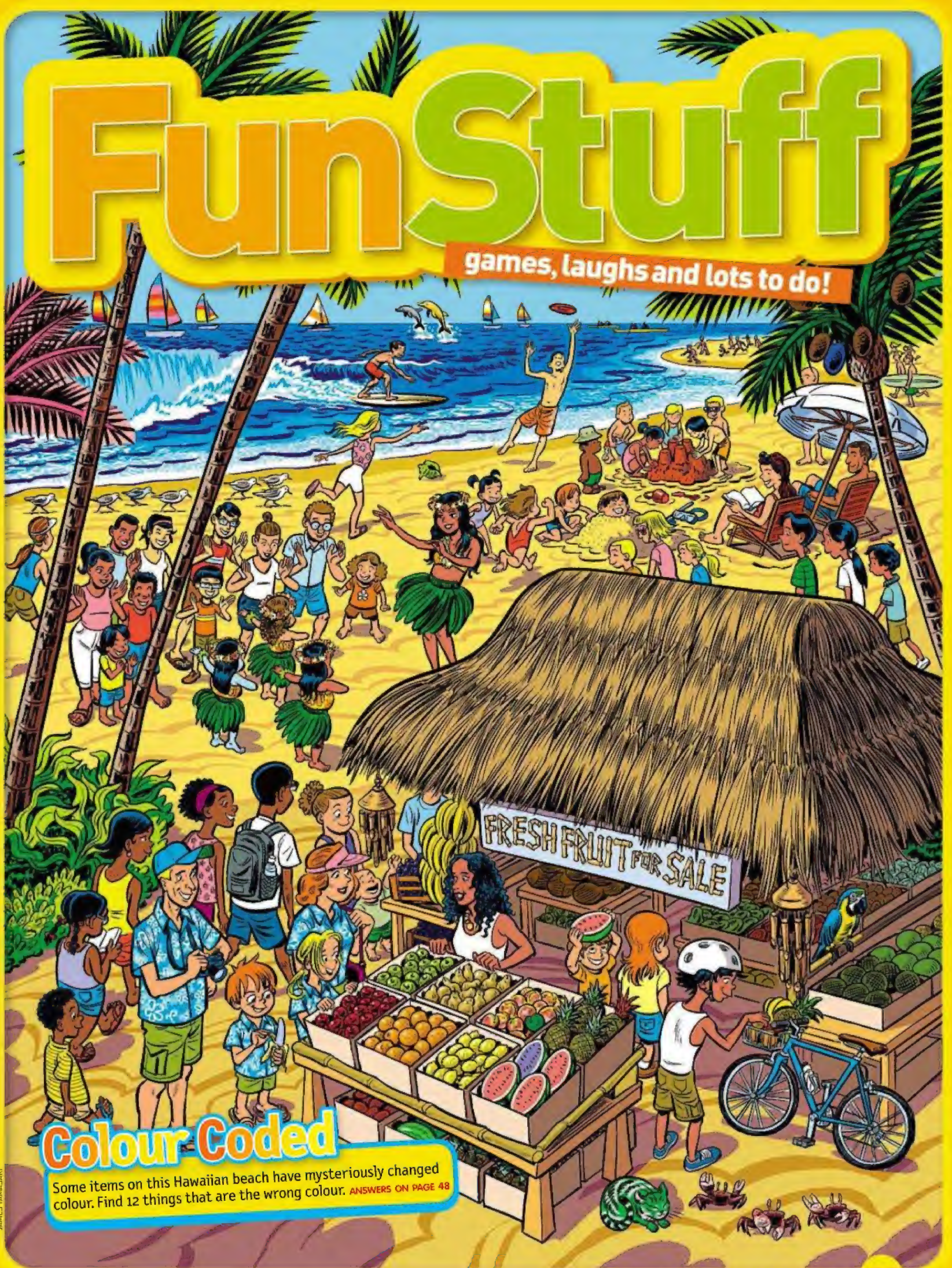
TRICKY TRIPOD

From a shot of you grinding the rails at the skate park to evidence that your brother's been sneaking ice cream from the freezer, the Gorillapod lets you take pictures and videos like never before. This flexible tripod holds small cameras. Its twelve-centimetre-long legs are bendable, so they can be secured to unusual places. The Gorillapod also has magnets for feet, so it can be attached to magnetic surfaces. Want to catch your kid brother in action? Stick the Gorillapod to the fridge, turn on the video camera, and wait for his next food raid. Busted, bro!

IT'S FLEXIBLE!

Fun Stuff

games, laughs and lots to do!



Colour Coded

Some items on this Hawaiian beach have mysteriously changed colour. Find 12 things that are the wrong colour. **ANSWERS ON PAGE 48**

What in the World?

GREEN THINGS

These photographs show close-up and faraway views of green things. Unscramble the letters to identify each picture. Let's go green!

ANSWERS ON PAGE 48



AMECHLEON



TFFICRA LTIGH



ARGDEN HEOS



RAGPES



EALF



ROFG



PLEAPS



CROLIOBC



UMBOSGOT

Photo Funnies

Do we get
free refills?



What do
YOU think
this chimp is
thinking?

1. **Fill in** the thought balloon.
2. **Cut out** the entire picture (or make a photocopy of it).
3. **Mail** it along with your name, address, phone number and date of birth to NG KIDS Photo Funnies, PO Box 2271, Cape Town 8000. Selection for publication in a future issue will be at the discretion of NG KIDS.



From the June Issue

I'll talk, Eddie, you dial, Bob, you listen and Frankie ... go find a plug for this thing!

Vasilis Michaelides, 12,
Klerksdorp

Why did giraffe have to steal our Blackberry?

Gaby Rautenbach, 13,
Pinetown

This is one big banana ... the banana is speaking!

Justin Philippott, 11,
East London

Halooo? Lion, is that you?

Cindy Louw, 10
Johannesburg

It's hard to make small talk on a big phone like this!

Cameron Vermaak, 13,
Cape Town

Elephants never forget ... to phone back.

Jacob Thomas, 12,
Potchefstroom

Who needs a Blackberry when you can have a yellow banana?

Nia le Roux, 11,
Franschoek

A big phone for big ears!

Emma Smit, 11,
George

FUN factory



PLAYTIME

WATCH LIST

SHARPAY'S FABULOUS ADVENTURE

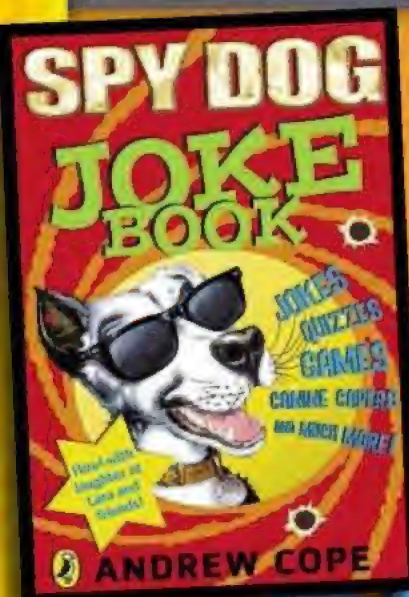
DStv Disney Channel 303

Our favourite diva, Sharpay Evans from *High School Musical* is back! This time, she is on her own adventure! After a talent scout spots her performing with her dog Boi, Sharpay sets off for the bright lights of New York City, ready to be super famous! Soon Sharpay has a reality check when she meets the devious owner of a pampered dog named Countess and a scheming Broadway teen who will do anything to be the best! Fortunately Sharpay also meets a handsome student filmmaker called Peyton, who finds her fascinating ...

Sharpay's Fabulous Adventure premieres on Disney Channel (DStv Channel 303) at 10.30 am on Saturday 10 September 2011.



BOOKWORM



DID YOU KNOW?

The writer of the book has a dog called Lara. She inspired the SPY DOG books!

WIN A BOOK!

You can win one of three *Spy dog Joke Book!* SMS* "NGK Spy" followed by your name, age and address to 33970.

Spy dog: Joke Book
Andrew Cope
Do you like spies?
Do you like dogs?
Super spy dog LARA (Licensed Assault and Rescue Animal) is back and this time around you will be rolling around with laughter! The new book is stuffed with awesome games, puzzles, activities and jokes about spies and dogs including Lara the Spy Dog, her friends and enemies. The activities and games will keep you busy for hours! You can also read the new story and a special introduction by LARA's creator, Andrew Cope.

150 years of South African Rugby.

Wim van der Berg

If you love sport, especially rugby, be sure to read this amazing collector's item! The first rugby game ever played on South African soil was in 1861. That is exactly 150 years ago! Read how rugby developed to a national obsession and follow the teams and players through the history of South Africa. You can read about how far this game has come and how the game's spirit survived. What is even greater is that it's just in time for the 2011 Rugby World Cup!

DID YOU KNOW?

The 2011 Rugby World Cup starts on 9 September 2011.

Wim van der Berg
150 YEARS OF SOUTH AFRICAN RUGBY

WIN A BOOK!

You can win one of two copies! SMS* "NGK Rugby" followed by your name, age and address to 33970.

WIN THIS!

You can win one of five *Pokémon TCG: Black & White* collector's mini album boxes. SMS* "NGK Pokémon" followed by your name, age and address to 33970.

*SMSs cost R150. Free SMSs don't apply.

DREAMWORKS

The PENGUINS

of MADAGASCAR

DR. BLOWHOLE RETURNS

AGAIN!

OPERATION:
SAVE THE WORLD FROM
DOLPHIN DOMINATION!



COMING SEPTEMBER 2011!

www.penguinsofmadagascarvideogame.com



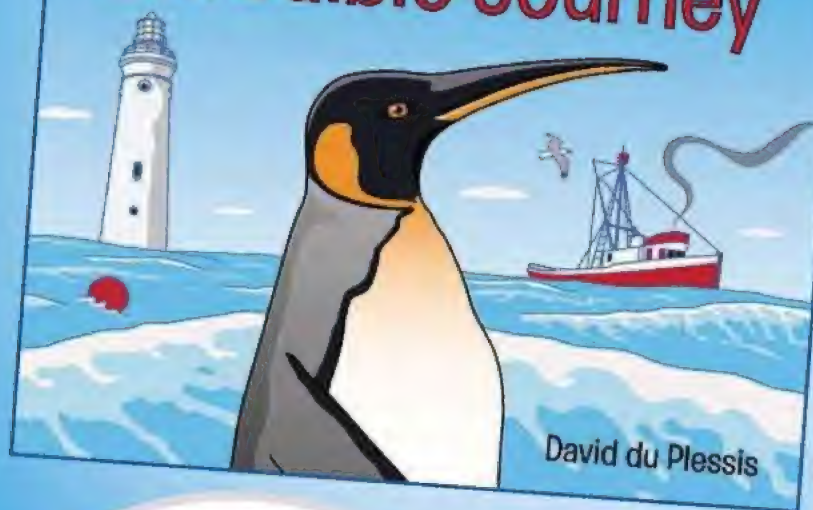
© 2011 Viacom International, Inc. All Rights Reserved. Nickelodeon and all related logos are trademarks of Viacom International, Inc. Based on characters from the feature film "Madagascar", © 2005 DreamWorks Animation LLC and "Madagascar: Escape 2 Africa", © 2008 DreamWorks Animation LLC. All Rights Reserved. Madagascar, Madagascar: Escape 2 Africa and all related titles, logos and characters are trademarks of DreamWorks Animation LLC. Game and Software © 2011 THQ Inc. All rights reserved. Certain technology © 2011 Geotronics, Inc. Geotronics, Inc. and the Geotronics Games logo are registered trademarks of Geotronics, Inc. in the United States and/or other countries. OP Code is a registered trademark of DENSO WAVE INCORPORATED in JAPAN and other countries. THQ, uDraw, uDraw GameTablet and their respective logos are trademarks and/or registered trademarks of THQ Inc. KINECT, Xbox, Xbox LIVE, and the Xbox logo are trademarks of the Microsoft group and companies, and are used under license from Microsoft. "Xbox 360" and the "Xbox 360" logo are registered trademarks and "Xbox 360" and the "Xbox 360" logo are trademarks of Microsoft Corporation. All other trademarks and registered trademarks are the property of their respective owners.

**SUBSCRIBE OR
RENEW NOW AND
RECEIVE
A FREE
BOOK!**



Subscribe for only R264,69 this month and save 15 percent on a year's subscription. You'll ALSO receive a copy of Mister King's Incredible Journey absolutely FREE! Gift offer limited to first 250 subscribers, thereafter only the discount applies.

Mister King's Incredible Journey



Mister King's Incredible Journey is a tale of courage and compassion. The story follows a king penguin captured by fishermen visiting its remote South Atlantic island. Through various adventures, both below and above the waves, the penguin eventually lands up on a beach on the mainland and seems to be destined for the local museum – until nature intervenes!

The book is available at all major bookshops. Visit www.randomstruik.co.za for more information.

SMS
"NGK SEP" to
32361* and we'll
call you back.

CALL
0860-103-578
(share-call)

E-MAIL
NGKids_subs@
media24.com

MAIL
Fill in the form
on page 24.

Discovery Vitality members can subscribe to National Geographic Kids for only R187 for 12 issues! Subscribe now by visiting VitalityMall at www.discovery.co.za, and remember, you can use your Discovery Miles, accumulated VitalityMall credit or a combination of these methods to pay. The number of magazines you can subscribe to annually at a reduced rate depends on your Vitality status. Terms and conditions apply. Vitality HealthStyle (Pty) Ltd is an authorised financial services provider.



TWELVE ISSUES FOR
R264,69 + FREE GIFT*

**SAVE
R46,71** | **15%
DISCOUNT**

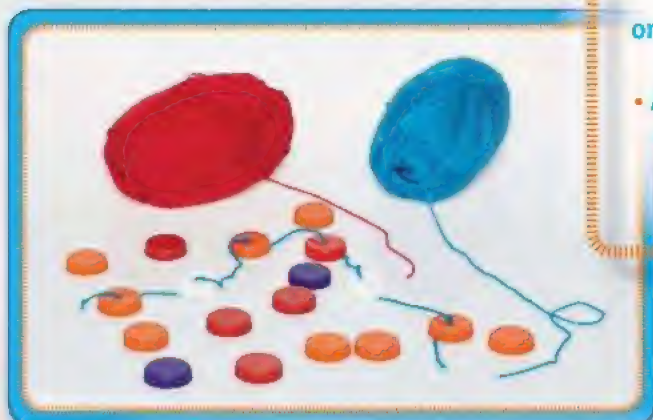
*Ask an adult's permission first! SMSs charged at R1. Free SMSs do not apply. This offer is open to the first 250 subscribers. Only one free book per order. We reserve the right to replace the featured gift with one of equal value. Offer valid until 20 September 2011. Offer is open to SA addresses only. Please call 021-405-1905 for international rates. Discovery Vitality offer valid only for active Vitality members. Gift offer is not valid for subscribers with a subscription to National Geographic Kids magazine. Offer is not valid for subscribers who have previously received a free book. Offer is not valid for subscribers who have previously received a free book. Offer is not valid for subscribers who have previously received a free book.

Family Project

PLANET-SAVING PLASTIC FUN

Plastic is convenient but not so good for our planet. Now you can recycle plastic and make something cool for your room! Try this colourful curtain for a window or a door and stop these plastic bottle caps from ending up in a landfill.

Always ask a parent for help when using scissors!



WHAT YOU NEED

- About nine one-metre-long strands of colourful wool
- As many plastic bottle caps as you can find.
- Scissors
- A thin rod

DID YOU KNOW?

Plastic bags and other plastic rubbish thrown into the ocean kill as many as 1 million sea creatures every year.

WHAT YOU DO

- Wash the bottle caps with warm water and let them dry.
- Use the scissors to make holes in the middle of each bottle cap (ask a parent to help you). This is where you will thread the wool.
- Take one strand of wool and tie a knot at the bottom.
- Choose a bottle cap and thread the wool through the hole.
- Push the bottle cap down until it reaches the knot.
- Measure six centimetres from the knot and make another knot. Repeat the steps until the whole string of wool is covered with bottle caps.
- Tie your strands to a piece of wood and hang it in front of your window!



DID YOU KNOW?

It takes about 450 years just for a plastic bottle to break down in the ground!

September is time to spring clean! Cleanup South Africa Week takes place from 12 to 17 September 2011, culminating in the National Recycling Day on Friday 16 September 2011. The 26th International Coastal Cleanup Day is on Saturday 17 September. It's not only the ocean but also rivers and dams that need cleaning. Visit www.cleanup-sa.co.za for more information.

SIGNS OF THE TIMES

Seeing isn't always believing.
Two of these funny signs are
not real. Can you figure out
which two are fake?

ANSWERS ON PAGE 48

1



2



3



4



5



6



7



KENNAN HARVEY / GETTY IMAGES (1); TONY ANDERSON / GETTY IMAGES (2); GRANT DIXON / LONELY PLANET IMAGES (3); HOLGER LEUE / LONELY PLANET IMAGES (4);
HOLGER LEUE / LONELY PLANET IMAGES; IMAGE DIGITALLY COMPOSED (5); ALASKA STOCK IMAGES / NATIONAL GEOGRAPHIC STOCK (6); RICHARD NEWSTEAD / GETTY IMAGES (7)

Just Joking

**KNOCK,
KNOCK.**

*Who's there?
Lena.
Lena who?
Lena little closer
and I'll tell you.*



Q What do you get when two dinosaurs crash into each other?

A A Tyrannosaurus wreck.

**TONGUE
TWISTER!**

Say this fast three times:

**Two twins
twirled twelve
twigs.**

Q Why do dogs run in circles?

A Because it's hard to run in squares.



You've got to be joking...

Q How did the crab call his friends?

A He used his shell phone.





Art Zone

NG KIDS readers sent us drawings of their favourite rainforest animals.

Happy Tree Frog
Yemaja Morley, 10,
Wilderness



"Reënwood-
papegaaï"
Jeandré van Staden, 7,
Wierdapark-Suid



Crazy Chameleon
Jehiel Naidoo, 9,
Johannesburg



Stalking Leopard
Andrew Phipott, 9,
East London



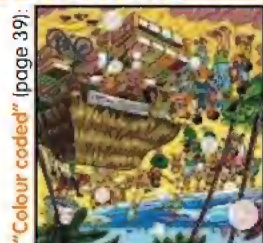
A Lemur
Jesse le Roux, 10,
Hoekwil



Toucan Sam
Dylan Jordaan, 8,
Queensburgh



Answers



"What in the World?" (page 40):
Top row: chameleon, traffic
lights, garden hose.
Middle row: grapes, leaf, frog.
Bottom row: apples, broccoli,
gumboats
"Signs of the times"
(page 46)
Signs 5 and 7 are fake.

Jaguar
Michael Slaven, 12,
Framesby



Tigress
Micaela Abreu, 11,
Cascades



"Die Blou Toekan"
Madenique van Wyk, 12,
Prieska



Twilight
Michelle Alberts, 8,
Durbanville



DRAW a wacky reptile.

Send your **original drawings** to
The Editor at NG KIDS,
P.O. Box 2271, Cape Town 8000.

Include your name, address, phone number, date of birth, a title for your drawing, a statement that it is your own work and the name of your parent or guardian. Your parent or guardian must sign a release for publication of your illustration. Submissions become the property of the National Geographic Society, and all rights thereto are transferred to the National Geographic Society. Submissions cannot be acknowledged or returned. Selection will be at the discretion of NG KIDS.

PLAY WITH CRAZY CONCEPTS!

Crazy Concepts

aims to provide safe, durable toys that **spark kids' imaginations** and allow for **hours of fun!** Our top

quality products cover a wide range of items from the **smallest goods** up to the **biggest play structures** imaginable suited for **schools** and **party venues**.

You can win an **Extreme Coaster** valued at **R4800**. E-mail* your name, age and contact details to sharlene@crazyconcepts.co.za to enter.

Visit www.crazyconcepts.co.za for more information.



WIN!

ROLLERKIDZ FUN

Turn your **favourite pair of shoes** into **rollerskates**. Adjust the size to fit your shoes, strap the skates on and roll away! **Roller Kidz Heel Skates** are also a fun way to **exercise!**

Win **one of five** pairs of heel skates valued at **R350** each. E-mail* your name, surname and contact number to prizes@rollerkidz.co.za.

Visit www.rollerkidz.co.za or call 083-445-3165 for more details.



ROLLERKIDZ
www.rollerkidz.co.za

WIN!

GENIUS OPENING SPECIAL

This awesome opening special is valid for Centurion Mall only!

Present this **original voucher** at **Engenius Toys**, Shop 318A Centurion Mall, to receive **15 percent** discount off your purchase! New store opens **1 September 2011**. Voucher valid at **Engenius Toys Centurion store** for the month of **September** only. Only **one** voucher can be used per purchase. Visit www.ingeniustoy.co.za.



ENGENIUS TOYS



education

Introducing the Green City Challenge Set!

An introduction to robotics course for students!



In January 2011, LEGO® Education launched the first LEGO-branded and developed introduction to robotics themed set!

The Green City Challenge Set and Green City Challenge Activity Pack center around the theme of renewable energy and are ideal as a classroom beginner package or in-class competition set.

Students are introduced to the world of robotics by first exploring basic programming maneuvers utilizing one of three training mats.

Each training activity focuses on one of the four main LEGO sensors – light, ultrasonic, touch, and sound – and enables students to explore and enhance their programming and sensor knowledge.

After students have completed the training phase and are confident in their robotic building and programming skills, they are presented with the Green City Challenge.

The challenge consists of a number of missions simulating real-life engineering problems, each environmentally focused and conducted on the Green City Competition Mat.

As students complete each challenge mission, they are awarded an energy brick. When all missions are complete, students use their collected energy bricks to power the “Green City.”

Each of the Green City Challenge missions are designed with three skill levels in mind: basic, moderate, and high. This enables teachers to select a level most appropriate for their students based on class progress or individual understanding of robotics.

The three levels can also be used to offer extension challenges to further expand classroom curricula.

The Green City Challenge Set contains three training mats, a challenge mat, and more than 1,300 elements to build challenge models such as a wind turbine and power plant.

The Green City Challenge Activity Pack offers seven easy-to-follow training activities plus challenge missions. Student worksheets, building instructions, programming examples, teacher notes, extension ideas, and mission rules are provided to ensure an easy-to-implement and easy-to-facilitate classroom environment.

A Green City Challenge Combo Pack is also available and includes both the Green City Challenge Set and Green City Challenge Activity Pack at a discount bundle price.

The Green City Challenge Set and Activity Pack are designed for use with the LEGO MINDSTORMS® Education NXT Base Set and LEGO MINDSTORMS Education NXT Software, each sold separately.



ENGENIUS TOYS

www.engeniustoys.co.za

Inventing the Future of Play

PROVIDING EXPERT ADVICE AND SUPPORT FOR THE LEGO® RANGE OF PRODUCTS IN SOUTH AFRICA.

At Engenius Toys we stock the full range of LEGO products, extended lines and accessories as well as LEGO wear. Drop in at any of our shops to experience our commitment to the product and the local community.



**NEW Store opening,
September - Centurion Mall
Shop 318 Centurion Mall**

www.engeniustoys.co.za

Fourways Mall
Shop L23, Ground Floor
Tel: +27 11 465 5386

Irene Village Mall
Shop 150
Tel: +27 12 662 0818

Grove Mall
Shop L24
Tel: +27 12 662 0818

Engenius Toys. Your LEGO destination Store.

SMALL TIME SPIES. BIG TIME ADVENTURE.



SPY KIDS
ALL THE TIME IN THE WORLD
IN 4D

SK STEREOKINECOR
ENTERTAINMENT



AT CINEMAS 16 SEPTEMBER 2011